# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)
Alanna SCHEPARTZ SHRADER et al.	)
Application No.:	) Group Art Unit: Unassigned
(based on US 60/199,408)	)
Filed: April 24, 2001	) Examiner: Unassigned )
For: DNA AND PROTEIN BINDING	)
MINIATURE PROTEINS	)
Commissioner for Patents	
Washington, D.C. 20231	
BOX SEQUENCE	

# STATEMENT ACCOMPANYING SEQUENCE LISTING

Dear Sir:

The undersigned hereby states upon information and belief that the Sequence Listing submitted concurrently herewith does not include matter which goes beyond the content of the application as filed and that the information recorded on the diskette submitted concurrently herewith is identical to the written Sequence Listing submitted herewith.

Respectfully submitted,
MORGAN, LEWIS & BOCKIUS LLP

Dated: April 24, 2001

By: Kosame Kosson
Registration No. 46,840

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1-MA/1601225 1

## SEQUENCE LISTING

```
<110> Schepartz Shrader, Alanna
     Chin, Jason W. K.
      Zutshi, Reena
     Rutledge, Stacey E.
      Kehlbeck Martin, Joanne D.
      Zondlo, Neal J.
<120> DNA and Protein Binding Miniature Proteins
<130> 44574-5099-US
<140>
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<150> US 60/199,408
<151> 2000-04-24
<150> US 60/240,566
<151> 2000-10-13
<150> US PROVISIONAL
<151> 2001-01-13
<150> US PROVISIONAL
<151> 2001-02-23
<160> 73
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Arg His Arg Tyr
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      polypeptide basic region PPBR0
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Leu Lys Arg Phe Arg Asn Thr Leu Ala Ala Tyr Leu Ser Val Val Arg
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 Lys Leu Gln Arg Met Lys Gln
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Lys Ala Ala Arg Ala Ala Ala
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Leu Lvs Arg Phe Arg Asn Thr Leu Ala Ala Arg Arg Ser Arg Leu Arg
                                 25
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<222> (1)..(7)
<223> Xaa at positions 1, 4 and 7 = any amino acid.
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<223> Xaa at positions 2, 4, 5 and 7 can be any amino
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Leu Lys Arg Phe Arg Asn Thr Leu Ala Ala Arg Arg Ser Arg Ala Arg
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             20
Lys Ala Ala
         35
<210> 17
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       007
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Leu Lys Arg Phe Arg Asn Thr Leu Ala Ala Arg Arg Ser Arg Ala Arg
                                25
 Lys Ala Ala
          35
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Gly Val Ser Val Gly Thr Arg Pro Gly Asp Asp Ala Pro Val Glu Asp
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                                 25
Lys Ala Ala
        35
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Lvs Ala Ala
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Lys Ala Ala
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Lys Ala Ala
<210> 22
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### isolated from BakLib

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<400> 23
 Phe Val Gly Arg Leu Leu Arg Tyr Phe Gly Asp Glu Ile Asn Arg
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                  5
<210> 25
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                                     10
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                                     10
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### isolated from BakLib

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<210> 29
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Phe Val Arg Arg Leu Leu Val Tyr Ile Trp Asp Asp Ile Asn Arg
                                     10
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                   5
                                     10
   1
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<210> 31

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Glu Thr Phe Ser Asp Leu Trp Lys Leu Leu Pro
<210> 32
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<221> VARIANT
<222> (21) .. (31)
<223> Xaa at positions 21, 23, 25, 30, 31 = any amino
      acid.
<400> 32
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Leu Ile Arg Phe Xaa Phe Xaa Leu Xaa Trp Tyr Leu Leu Xaa Xaa
             20
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<210> 33
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Leu Ile Arg Phe Gln Phe Ala Leu Arg Trp Tyr Leu Leu Pro Met
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                  5
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                 5
                                     10
<210> 36
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Leu Ile Arg Phe Lys Phe Leu Leu Gln Trp Tyr Leu Leu Ala Leu
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 <210> 37
 <211> 15
 <212> PRT
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       protein, Lib. 1, clone p3257
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 Leu Ile Arg Phe Ser Phe Ala Leu Gln Trp Tyr Leu Leu Gly Glu
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                  5
 <210> 38
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      peptide basic region
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<400> 38
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Leu Ile Arg Phe Xaa Xaa Xaa Leu Xaa Xaa Tyr Leu Xaa Val Val
<210> 39
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tgaagatctg atccgtttct acaacgacct gcagcagtac ctgaacgttg ttacccgtca 120
                                                                   142
ccqttacgcg gccgcaggtg cg
<210> 40
<211> 87
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ctatgeggee cageeggeeg gteegteeca geegaeetae eeegggtgae gaegeaeegg 60
ttgaagatct gatccgtttc tacaacg
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<210> 42
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eqeacetqeg geegegtaac g
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<211> 83
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gatetgaage getttegtaa caecetgget gegegeegtt eeegtgeaeg taaagetgea 60
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egtgetgeag etggtggttg ege
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gegegeagee agggtgttac gaaagegett cagatettea acc
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any nucleotide; s at positions 42, 54, 63, 69 = c
      or g.
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cgcacctgcg gcggcacgac g
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Ala Lys Arg Arg Asn Gln Gly Gly Cys
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<210> 48
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 <400> 48
Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Glu Tyr Arg
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  1
 Leu Arg Arg Phe Arg Asn Asn Leu Ala Val Arg Lys Ser Arg Val Lys
                                  25
              20
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Ala Lys Arg Arg Asn Gln Gly Gly Cys
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                                                          15
Leu Ile Arg Phe Arg Asn Asn Leu Ala Val Tyr Leu Ser Val Val Lys
             20
Ala Lys Arg Arg Asn Gln Gly Gly Cys
         35
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Leu Arg Arg Phe Ala Ala Thr Leu Ala Ala Ala Ala Ser Ala Ala Lys
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Ala Lys Arg Arg Asn Gln Gly Gly Cys
<210> 51
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 Val Tyr Asp Leu Ile Arg Phe Arg Asn Asn Leu Ala Val Arg Lys Ser
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                   5
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Val Val Lys Ala Lys Arg Arg Asn Gln Gly Gly Cys
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Gly Pro Ser Trp Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Tyr Asp
Leu Ile Arg Phe Arg Asn Asn Leu Ala Val Arg Lys Ser Val Val Lys
             20
Ala Lys Arg Arg Asn Gln Gly Gly Cys
         35
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  1
Leu Arg Arg Phe Tyr Asp Thr Leu Arg Glu Arg Arg Arg Val Val Gly
             20
Gly Cys
<210> 54
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 Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp
                                      10
                   5
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Leu Arg Arg Phe Tyr Asp Thr Leu Arg Glu Tyr Leu Arg Val Val Gly
                                 25
             20
Gly Cys
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                                      10
  1
Leu Arg Arg Phe Tyr Asp Thr Leu Arg Glu Tyr Arg Arg Val Val Gly
                                  25
             2.0
Gly Cys
<210> 56
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 <400> 56
Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Glu Asp
Leu Arg Arg Phe Tyr Asp Thr Leu Arg Glu Arg Leu Arg Val Val Gly
 Gly Cys
 <210> 57
 <211> 31
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Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Lys Ile Trp
                                    10
Leu Lys Asn Phe Arg Asp Lys Leu Lys Lys Tyr Leu Asn Val Val
<210> 58
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<223> Description of Artificial Sequence: PPeng2, Q50K
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<400> 58
Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Lys Ile Trp
Leu Lys Asn Phe Arg Ala Lys Leu Lys Lys Tyr Leu Asn Val Val
                                 25
             20
<210> 59
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Leu Lys Ile Phe Tyr Lys Asn Leu Arg Gln Tyr Leu Lys Val Val
                                  25
             20
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<400> 63

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Leu Glu Asn Phe Tyr Leu Asn Leu Glu Ile Tyr Leu Leu Val Val Glu
                                 25
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         35
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              20
Lys Glu Lys Leu Glu Phe Ile Leu Ala Ala Tyr
                             40
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Gly Pro Ser Gln Pro Thr Tyr Pro Gly Asp Asp Ala Pro Val Leu Asp

5

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             20
Ile Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala
                             40
Ala Tyr
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Leu Glu Thr Phe Tyr Leu Glu Leu Glu Lys Tyr Leu Leu Val Val Glu
                                                      30
             20
                                 25
Ile Ala Asn Leu Leu Lys Glu Lys Glu Lys Leu Glu Phe Ile Leu Ala
                             40
Ala Tyr
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      promoter
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atgac
                                                                   5
<210> 66
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<400> 66
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attqc

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